



From the INTERNATIONAL SEARCHING AUTHORITY

COHEN, Alan, Nicol 2 Grove Place Tatsfield Westerham

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

Kent TN16 2BB UNITED KINGDOM	(PCT Rule 44.1)
	Date of mailing (day/month/year) 10/07/2000
Applicant's or agent's file reference	
293	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No.	International filing date
PCT/GB 00/00556	(day/month/year) 17/02/2000
Applicant KINGS COLLEGE LONDON et al.	
1. X The applicant is hereby notified that the International Search	n Report has been established and is transmitted herewith.
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim	
When? The time limit for filing such amendments is normal International Search Report; however, for more de	ally 2 months from the date of transmittal of the tails, see the notes on the accompanying sheet.
Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35	
For more detailed instructions, see the notes on the acco	mpanying sheet.
2. The applicant is hereby notified that no International Search Article 17(2)(a) to that effect is transmitted herewith.	Report will be established and that the declaration under
3. With regard to the protest against payment of (an) addition	nal fee(s) under Rule 40.2, the applicant is notified that:
the protest together with the decision thereon has beer applicant's request to forward the texts of both the prot	n transmitted to the International Bureau together with the lest and the decision thereon to the designated Offices.
no decision has been made yet on the protest; the app	licant will be notified as soon as a decision is made.
4. Further action(s): The applicant is reminded of the following:	
Shortly after 18 months from the priority date, the international ap If the applicant wishes to avoid or postpone publication, a notice priority claim, must reach the International Bureau as provided i completion of the technical preparations for international publica	of withdrawal of the international application, or of the n Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the
Within 19 months from the priority date, a demand for international wishes to postpone the entry into the national phase until 30 months.	al preliminary examination must be filed if the applicant nths from the priority date (in some Offices even later).
Within 20 months from the priority date, the applicant must perfor before all designated Offices which have not been elected in the priority date or could not be elected because they are not bound	e demand or in a later election within 19 months from the

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

_ Fax: (+31-70) 340-3016

Authorized officer

Liliane Van Velzen-Peron

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of Transmittal of International Search Report		
293	ACTION (Form PCT/ISA/220) as well as, where applicable, item 5 below.		
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)	
PCT/GB 00/00556	17/02/2000	17/02/1999	
Applicant			
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KINGS COLLEGE LONDON et a			
This International Search Report has beer according to Article 18. A copy is being tra	n prepared by this International Searching Auth Insmitted to the International Bureau.	nority and is transmitted to the applicant	
This International Search Report consists	of a total of 3 sheets.		
	a copy of each prior art document cited in this	report.	
Basis of the report			
a. With regard to the language, the i	nternational search was carried out on the bas ass otherwise indicated under this item.	is of the international application in the	
the international search was Authority (Rule 23.1(b)).	as carried out on the basis of a translation of the	ne international application furnished to this	
b. With regard to any nucleotide and was carried out on the basis of the	dor amino acid sequence disclosed in the in	ternational application, the international search	
	nal application in written form.		
filed together with the inter	national application in computer readable form	1.	
	this Authority in written form.		
. =	this Authority in computer readble form.		
international application as	sequently furnished written sequence listing do filed has been furnished.	pes not go beyond the disclosure in the	
the statement that the info furnished	rmation recorded in computer readable form is	identical to the written sequence listing has been	
2. Certain claims were foun	d unsearchable (See Box I).		
3. Unity of invention is tack	ing (see Box II).		
4. With regard to the title,			
the text is approved as sub	omitted by the applicant.		
	ned by this Authority to read as follows:	•	
· · · · · · · · · · · · · · · · · · ·	FERENCE CANCELLATION FOR MU	LTI RATE USERS	
5. With regard to the abstract,			
X the text is approved as sub	emitted by the applicant.		
the text has been establish within one month from the	ed, according to Rule 38.2(b), by this Authority date of mailing of this international search repo	y as it appears in Box III. The applicant may. ort, submit comments to this Authority.	
6. The figure of the drawings to be publis		1	
X as suggested by the applic	ant.	None of the figures.	
because the applicant faile	d to suggest a figure.		
because this figure better of	characterizes the invention.		

INTERNATIONAL SEARCH REPORT



Inte	onal	Application No
P	ΔB	00/00556

A. CLASS IPC 7	HICATION OF SUBJECT MATTER H04B1/707		
According t	o International Patent Classification (IPC) or to both national classific	cation and IPC	
B. FIELDS	SEARCHED		
Minimum de IPC 7	ocumentation searched (classification system followed by classificat H04B	tion symbols)	
Documenta	tion searched other than minimum documentation to the extent that	such documents are included in the fields se	arched
Electronic o	data base consulted during the international search (name of data ba	ase and, where practical, search terms used)	
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the re	levant passages	Relevant to claim No.
X	OJANPERA T ET AL: "Qualitative of some multiuser detector algorwideband CDMA" IEEE VEHICULAR TECHNOLOGY CONFERENCE,XX,XX, vol. 1, 1998, pages 46-50-50vol1 XP002126104 page 46, right-hand column, line 20 page 47, left-hand column, line 3-right-hand column, line 2 page 49, right-hand column, line 50, left-hand column, line 31	ithms for , 1 - line 37	1,2,5
X Furth	ner documents are listed in the continuation of box C.	Patent family members are listed in	annex.
"A" docume consid "E" earlier o filing d "L" docume which i	nt which may throw doubts on priority claim(s) or is cited to establish the publication date of another	"T" later document published after the interr or priority date and not in conflict with the cited to understand the principle or the cinvention "X" document of particular relevance; the classing cannot be considered novel or cannot be involve an inventive step when the document of particular relevance; the classing the control of particular relevance rel	ne application but ony underlying the himed invention he considered to hument is taken alone
"O" docume other n "P" docume	ent published prior to the international filing date but	cannot be considered to involve an inve document is combined with one or more ments, such combination being obvious in the art. "&" document member of the same patent fa	entive step when the e other such docu- s to a person skilled
Date of the a	actual completion of the international search	Date of mailing of the international searc	ch report
28	8 June 2000	10/07/2000	
Name and m	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Lancinese, A	

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INTERNATIONAL SEARCH REPORT



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Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
	Ordinor of Good Horiz, Will Indication, Where appropriate, of the relevant passages		nelevant to claim No.
Ρ,Χ	WIJTING C S ET AL: "Groupwise serial multiuser detectors for multirate DS-CDMA" 1999 IEEE 49TH VEHICULAR TECHNOLOGY CONFERENCE (CAT. NO.99CH36363), 1999 IEEE 49TH VEHICULAR TECHNOLOGY CONFERENCE. MOVING INTO A NEW MILLENIUM, HOUSTON, TX, USA, 16-20 MAY 1999, pages 836-840 vol.1, XP0021413C7 1999, Piscataway, NJ, USA, IEEE, USA ISEN: 0-7803-5565-2 page 836, left-hand column, line 1 -page 837, right-hand column, line 29 -page 838, left-hand column, line 29 -page 838, left-hand column, line 3		1,2,5
A	KOULAKIOTIS D ET AL: "EVALUATION OF A DS/CDMA MULTIUSER RECEIVER EMPLOYING A HYBRID FORM OF INTERFERENCE CANCELLATION IN RAYLEIGH-FADING CHANNELS" IEEE COMMUNICATIONS LETTERS, US, IEEE SERVICE CENTER, PISCATAWAY, US, vol. 2, no. 3, 1 March 1998 (1998-03-01), pages 61-63, XP000751853 ISSN: 1089-7798 cited in the application the whole document		1-8

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